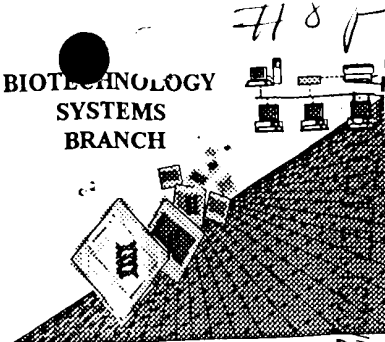


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



APR 11 2001

RECEIVED

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/396,196
Source: 1631
Date Processed by STIC: 4/3/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1631

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/396,196

DATE: 04/03/2001
 TIME: 09:53:33

Input Set : D:\Seqlist.txt
 Output Set: N:\CRF3\04032001\I396196.raw

Does Not Comply
 Corrected Diskette Needed

see
 p. 6

4 <110> APPLICANT Michael Mittman
 5 David Mack
 6 David Lockhart
 7 Affymetrix, Inc.
 9 <120> TITLE OF INVENTION: Methods of Genetic Analysis
 12 <130> FILE REFERENCE: 3101.1
 14 <140> CURRENT APPLICATION NUMBER: US 09/396,196
 15 <141> CURRENT FILING DATE: 1999-09-15
 17 <160> NUMBER OF SEQ ID NOS: 127811
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 25
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Mus musculus
 26 <400> SEQUENCE: 1 25
 27 gacattgtcg caagtcacag aatta
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 25
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Mus musculus
 34 <400> SEQUENCE: 2 25
 35 attgtcgcaa gtcacagaat tattt
 37 <210> SEQ ID NO: 3
 38 <211> LENGTH: 25
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Mus musculus
 42 <400> SEQUENCE: 3 25
 43 gttgctggat ctgctgtttg aagcg
 45 <210> SEQ ID NO: 4
 46 <211> LENGTH: 25
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Mus musculus
 50 <400> SEQUENCE: 4 25
 51 ggatctgctg tttgaagcgc agcag
 53 <210> SEQ ID NO: 5
 54 <211> LENGTH: 25
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Mus musculus
 58 <400> SEQUENCE: 5 25
 59 ggcgcagcagg tgcacgccca gcatt
 61 <210> SEQ ID NO: 6
 62 <211> LENGTH: 25
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Mus musculus
 66 <400> SEQUENCE: 6 25
 67 gcaggtgcat cgccagcatt tcgat
 69 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/396,196

DATE: 04/03/2001
TIME: 09:53:33

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\04032001\I396196.raw

```

70 <211> LENGTH 25
71 <212> TYPE: DNA
72 <213> ORGANISM Mus musculus
74 <400> SEQUENCE: 7 25
75 gcategccag cattcgatc ctggt
77 <210> SEQ ID NO: 8
78 <211> LENGTH: 25
79 <212> TYPE: DNA
80 <213> ORGANISM Mus musculus
82 <400> SEQUENCE: 8 25
83 gcatttcgat cctggtcagg tgcag
85 <210> SEQ ID NO: 9
86 <211> LENGTH: 25
87 <212> TYPE: DNA
88 <213> ORGANISM Mus musculus
90 <400> SEQUENCE: 9 25
91 cgatcctcgt caggtgcagg tcagc
93 <210> SEQ ID NO: 10
94 <211> LENGTH: 25
95 <212> TYPE: DNA
96 <213> ORGANISM Mus musculus
98 <400> SEQUENCE: 10 25
99 tcgtcaggtg caggtcagca cgttg
101 <210> SEQ ID NO: 11
102 <211> LENGTH: 25
103 <212> TYPE: DNA
104 <213> ORGANISM Mus musculus
106 <400> SEQUENCE: 11 25
107 gcaggtcagc acgttgctgt cgatt
109 <210> SEQ ID NO: 12
110 <211> LENGTH: 25
111 <212> TYPE: DNA
112 <213> ORGANISM Mus musculus
114 <400> SEQUENCE: 12 25
115 cagcacgttg ctgtcgatta agacc
117 <210> SEQ ID NO: 13
118 <211> LENGTH: 25
119 <212> TYPE: DNA
120 <213> ORGANISM Mus musculus
122 <400> SEQUENCE: 13 25
123 gctgtcgatt aagaccggag cttgt
125 <210> SEQ ID NO: 14
126 <211> LENGTH: 25
127 <212> TYPE: DNA
128 <213> ORGANISM Mus musculus
130 <400> SEQUENCE: 14 25
131 agcttggtccg gaagattgca aatac
133 <210> SEQ ID NO: 15
134 <211> LENGTH: 25

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/396,196

DATE: 04/03/2001
 TIME: 09:53:33

Input Set : D:\Seqlist.txt
 Output Set: N:\CRF3\04032001\I396196.raw

```

135 <212> TYPE: DNA
136 <213> ORGANISM: Mus musculus
138 <400> SEQUENCE: 15
139 agattgcaaa tactgcccgc aaacg
141 <210> SEQ ID NO: 16
142 <211> LENGTH: 25
143 <212> TYPE: DNA
144 <213> ORGANISM: Mus musculus
146 <400> SEQUENCE: 16
147 caaataactgc ccgcaaacgt cgcgc
149 <210> SEQ ID NO: 17
150 <211> LENGTH: 25
151 <212> TYPE: DNA
152 <213> ORGANISM: Mus musculus
154 <400> SEQUENCE: 17
155 tgaacaggtg ctggagtcgg cgcgc
157 <210> SEQ ID NO: 18
158 <211> LENGTH: 25
159 <212> TYPE: DNA
160 <213> ORGANISM: Mus musculus
162 <400> SEQUENCE: 18
163 ggaagtcggcg cgcaaaagcga aagcg
165 <210> SEQ ID NO: 19
166 <211> LENGTH: 25
167 <212> TYPE: DNA
168 <213> ORGANISM: Mus musculus
170 <400> SEQUENCE: 19
171 caaagcgaaa gcggcaggat cgacg
173 <210> SEQ ID NO: 20
174 <211> LENGTH: 25
175 <212> TYPE: DNA
176 <213> ORGANISM: Mus musculus
178 <400> SEQUENCE: 20
179 ggcaggatcg acgcgttct gtatg
181 <210> SEQ ID NO: 21
182 <211> LENGTH: 25
183 <212> TYPE: DNA
184 <213> ORGANISM: Mus musculus
186 <400> SEQUENCE: 21
187 gccggagttt tacggcaata tcata
189 <210> SEQ ID NO: 22
190 <211> LENGTH: 25
191 <212> TYPE: DNA
192 <213> ORGANISM: Mus musculus
194 <400> SEQUENCE: 22
195 gttttacggc aatatcatca ccaca
197 <210> SEQ ID NO: 23
198 <211> LENGTH: 25
199 <212> TYPE: DNA

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/396,196

DATE: 04/03/2001
 TIME: 09:53:33

Input Set : D:\Seqlist.txt
 Output Set: N:\CRF3\04032001\I396196.raw

200 <213> ORGANISM: Mus musculus	
202 <400> SEQUENCE: 23	25
203 gcaatattcat caccacacgc actta	
205 <210> SEQ ID NO: 24	
206 <211> LENGTH: 25	
207 <212> TYPE: DNA	
208 <213> ORGANISM: Mus musculus	
210 <400> SEQUENCE: 24	25
211 atcaccacac gcaattatca ggaac	
213 <210> SEQ ID NO: 25	
214 <211> LENGTH: 25	
215 <212> TYPE: DNA	
216 <213> ORGANISM: Mus musculus	
218 <400> SEQUENCE: 25	25
219 aggcacttat caggaagcc tcgat	
221 <210> SEQ ID NO: 26	
222 <211> LENGTH: 25	
223 <212> TYPE: DNA	
224 <213> ORGANISM: Mus musculus	
226 <400> SEQUENCE: 26	25
227 atacgttggg aaaaagtgcgc gatgc	
229 <210> SEQ ID NO: 27	
230 <211> LENGTH: 25	
231 <212> TYPE: DNA	
232 <213> ORGANISM: Mus musculus	
234 <400> SEQUENCE: 27	25
235 ggaataaagtg cgcgatgccg ggatc	
237 <210> SEQ ID NO: 28	
238 <211> LENGTH: 25	
239 <212> TYPE: DNA	
240 <213> ORGANISM: Mus musculus	
242 <400> SEQUENCE: 28	25
243 agtgcgcgat gccgggatca aagtc	
245 <210> SEQ ID NO: 29	
246 <211> LENGTH: 25	
247 <212> TYPE: DNA	
248 <213> ORGANISM: Mus musculus	
250 <400> SEQUENCE: 29	25
251 gccgggatca aagtctgttc tggcg	
253 <210> SEQ ID NO: 30	
254 <211> LENGTH: 25	
255 <212> TYPE: DNA	
256 <213> ORGANISM: Mus musculus	
258 <400> SEQUENCE: 30	25
259 aagtctgttc tggcggcatt gtggg	
261 <210> SEQ ID NO: 31	
262 <211> LENGTH: 25	
263 <212> TYPE: DNA	
264 <213> ORGANISM: Mus musculus	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/396,196

DATE 04/03/2001
TIME 09:53:33

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\04032001\I396196.raw

```

266 <400> SEQUENCE 31
267 aagatcgcgc cggattattg ctgca 25
269 <210> SEQ ID NO: 32
270 <211> LENGTH 25
271 <212> TYPE: DNA
272 <213> ORGANISM: Mus musculus
274 <400> SEQUENCE: 32
275 acgcgattat tgcgtgcaact ggcaa 25
277 <210> SEQ ID NO: 33
278 <211> LENGTH: 25
279 <212> TYPE: DNA
280 <213> ORGANISM: Mus musculus
282 <400> SEQUENCE: 33
283 attgctgcaa ctggcaaacc tgccg 25
285 <210> SEQ ID NO: 34
286 <211> LENGTH: 25
287 <212> TYPE: DNA
288 <213> ORGANISM: Mus musculus
290 <400> SEQUENCE: 34
291 cgcgcgaaaag cgtgccaatc aacat 25
293 <210> SEQ ID NO: 35
294 <211> LENGTH: 25
295 <212> TYPE: DNA
296 <213> ORGANISM: Mus musculus
298 <400> SEQUENCE: 35
299 aagcgtgcca atcacatgc tggcg 25
301 <210> SEQ ID NO: 36
302 <211> LENGTH: 25
303 <212> TYPE: DNA
304 <213> ORGANISM: Mus musculus
306 <400> SEQUENCE: 36
307 caatcaacat gctgggtgaag gtgaa 25
309 <210> SEQ ID NO: 37
310 <211> LENGTH: 25
311 <212> TYPE: DNA
312 <213> ORGANISM: Mus musculus
314 <400> SEQUENCE: 37
315 tgggtgaagg gaaaggcacg ccgct 25
317 <210> SEQ ID NO: 38
318 <211> LENGTH: 25
319 <212> TYPE: DNA
320 <213> ORGANISM: Mus musculus
322 <400> SEQUENCE: 38
323 acgcgcgttg ccgataacga tgatg 25
325 <210> SEQ ID NO: 39
326 <211> LENGTH: 25
327 <212> TYPE: DNA
328 <213> ORGANISM: Mus musculus
330 <400> SEQUENCE: 39

```

09/29/96

6

<210> 181
<211> 25
<212> DNA
<213> Mus musculus

<300>

<308> L38424

L3097

<400> 181

tggcagaacg aacaccacat ttgga

<210> 182

<211> 25

<212> DNA

<213> Mus musculus

<300>

<308> L38424

L3097

<400> 182

tatctgatgt gatgcctgtt gagtc

This numeric identifier AND response are

25

mandatory

if L3087 and
response
are shown

use MMM-yyy
or yyyy-mm-dd

25

format

IMPORTANT:

These are
GLOBAL
errors

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Also: Please ensure the numeric identifier L2137 is shown in every sequence AND that it has a response.

FYI

Please review the

Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/396,196

DATE: 04/03/2001
TIME: 09:53:34

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\04032001\I396196.raw

L:1469 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:181
L:1480 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:182
L:1491 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:183
L:1502 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:184
L:1513 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:185
L:1524 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:186
L:1535 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:187
L:1546 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:188
L:1557 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:189
L:1568 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:190
L:1579 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:191
L:1590 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:192
L:1601 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:193
L:1612 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:194
L:1623 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:195
L:1634 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:196
L:1645 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:197
L:1656 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:198
L:1667 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:199
L:1678 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:200
L:1689 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:201
L:1700 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:202
L:1711 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:203
L:1722 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:204
L:1733 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:205
L:1744 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:206
L:1755 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:207
L:1766 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:208
L:1777 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:209
L:1788 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:210
L:1799 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:211
L:1810 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:212
L:1821 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:213
L:1832 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:214
L:1843 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:215
L:1854 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:216
L:1865 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:217
L:1876 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:218
L:1887 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:219
L:1898 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:220
L:1909 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:221
L:1920 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:222
L:1931 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:223
L:1942 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:224
L:1953 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:225
L:1964 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:226
L:1975 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:227
L:1986 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:228

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/396,196

DATE: 04/03/2001

TIME: 09:53:34

Input Set : D:\Seqlist.txt

Output Set: N:\CRF3\04032001\I396196.raw

L:1997 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:229
L:2008 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:230
L:355902 M:201 W: Mandatory field data missing, ORGANISM
L:355910 M:201 W: Mandatory field data missing, ORGANISM
L:355918 M:201 W: Mandatory field data missing, ORGANISM
L:355926 M:201 W: Mandatory field data missing, ORGANISM
L:703636 M:201 W: Mandatory field data missing, ORGANISM
L:703644 M:201 W: Mandatory field data missing, ORGANISM
L:703652 M:201 W: Mandatory field data missing, ORGANISM